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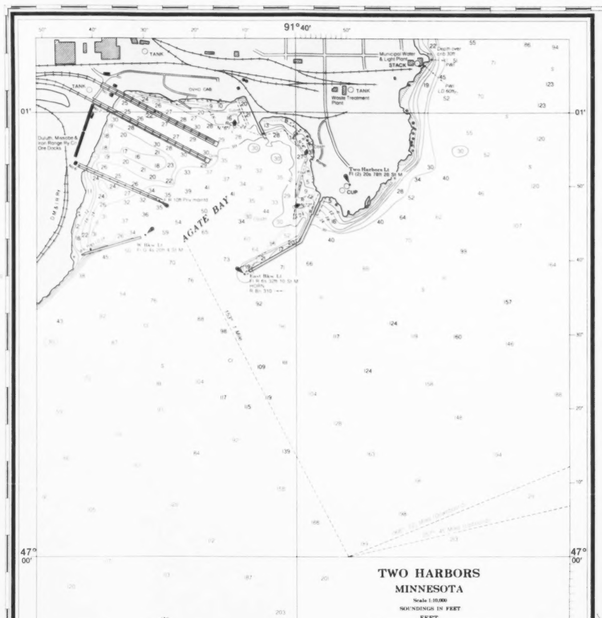
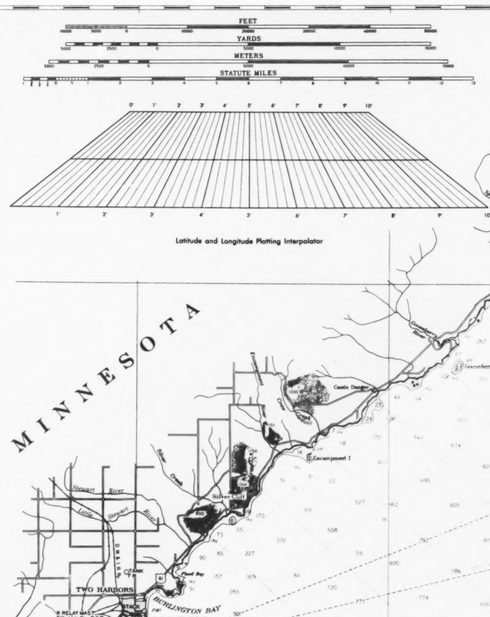
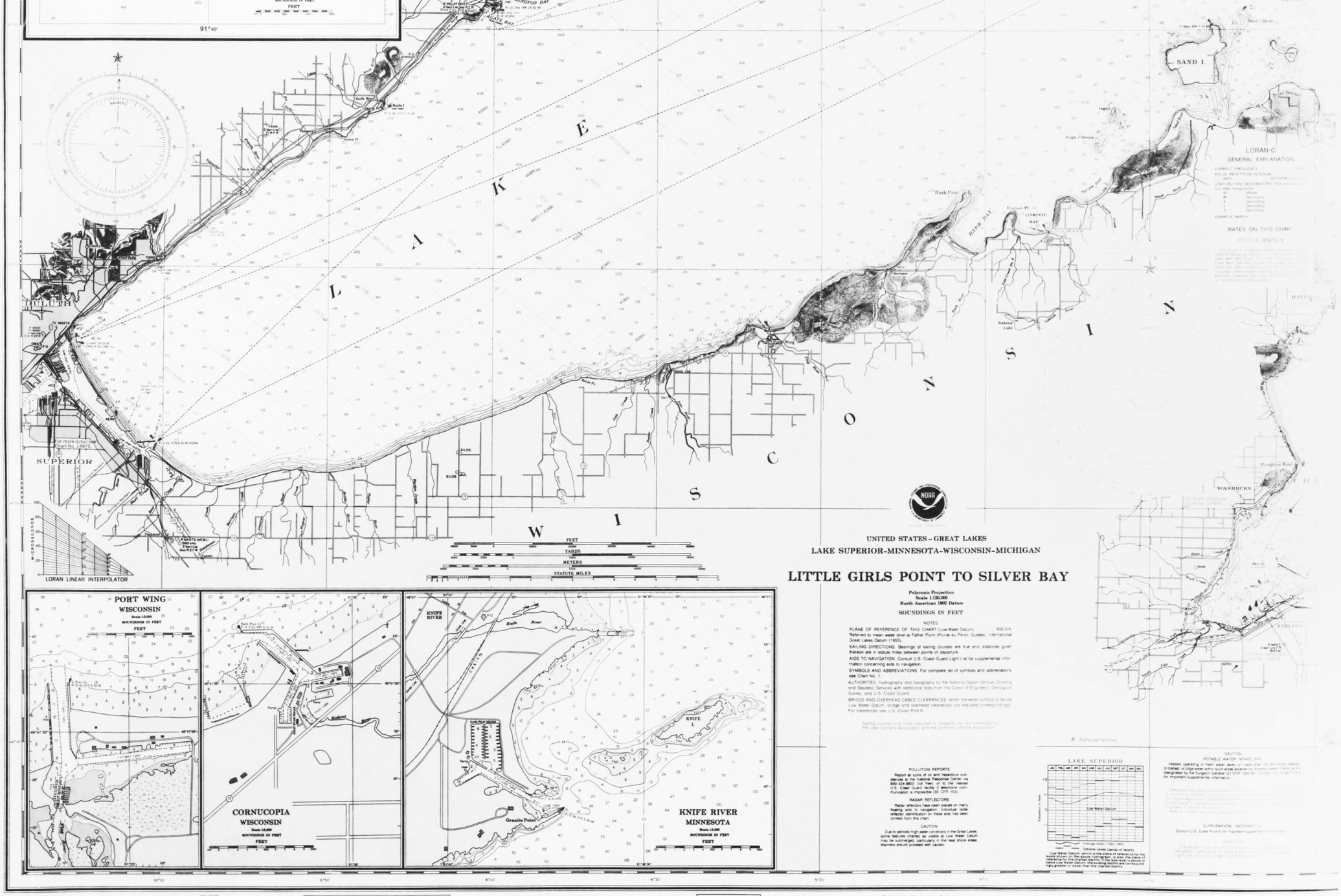
Formerly 5-36; 1st Ed. Aug. 1906







UNITED STATES - GREAT LAKES
LAKE SUPERIOR-MINNESOTA-WISCONSIN-MICHIGAN

LITTLE GIRLS POINT TO SILVER BAY

Polyconic Projection
Scale 1:120,000
North American 1902 Datum
SOUNDINGS IN FEET

NOTES

PLANE OF REFERENCE OF THIS CHART (Low Water Datum) 600.0 ft. Referred to mean water level at Father Point (Pointe au Pere), Quebec, International Great Lakes Datum (1955).

SAILING DIRECTIONS. Bearings of sailing courses are true and distances given thereon are in statute miles between points of departure.

AIDS TO NAVIGATION. Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SYMBOLS AND ABBREVIATIONS. For complete list of symbols and abbreviations see Chart No. 1.

AUTHORITIES. Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

BRIDGE AND OVERHEAD CABLE CLEARANCES. When the water surface is above Low Water Datum, bridge and overhead clearances are reduced correspondingly. For clearances see U.S. Coast Pilot 6.

Sailing courses and limits indicated in magenta are recommended by the Lake Carriers Association and the Dominion Marine Association.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Due to periodic high water conditions in the Great Lakes, some features charted as visible at Low Water Datum may be submerged, particularly in the near shore areas. Mariners should proceed with caution.

LAKE SUPERIOR

Extreme Levels (period of record)

Low Water Datum, which is the plane of reference for the depths shown on this chart, is 0.79 ft. below the plane of reference for the charted depths. When the water level is above or below Low Water Datum, the existing depths will correspondingly be greater or lesser than the charted depths.

CAUTION

POTABLE WATER INTAKE (PWI)

Vessels operating in fresh water areas (or rivers) shall not discharge sewage, or effluent, or bilge water within such areas adjacent to domestic water intakes as designated by the Surgeon General (21 CFR 1250.93). Consult U.S. Coast Pilot 6 for important supplemental information.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 6 for important supplemental information.

2nd Ed., Sept. 22/90 ■

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CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

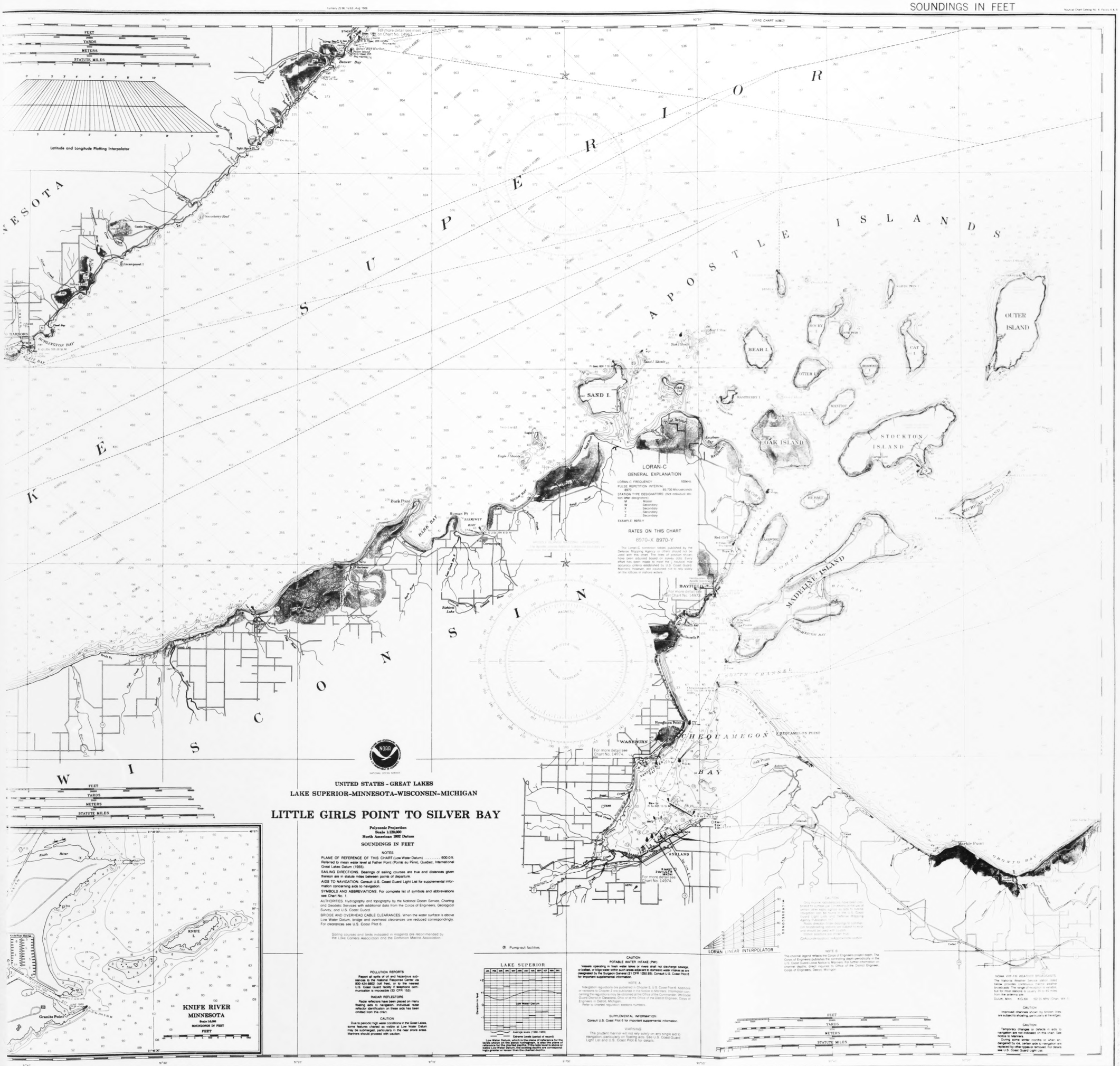
This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852

SOUNDINGS IN FEET

20th Anniversary 1970s-1990s
National Oceanic and Atmospheric Administration
Serving The Nation
John A. Knauss, Administrator

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

SOUNDINGS IN FEET


SUPERIOR
WISCONSIN
MINNESOTA
APOSTLE ISLANDS
MADELINE ISLAND
OUTER ISLAND
SAND I.
OAK ISLAND
STOCKTON ISLAND
BEAR I.
MICHIGAN ISLAND
BAYFIELD
WASHBURN
ASHLAND
CHEQUAMEGON BAY
CHEQUAMEGON POINT
Houghton Point
Oak Point
Marble Point
Granite Point
Roman Pt
Bark Point
Siskiwit Bay
Siskiwit Lake
Raspberry Bay
Red Cliff
Little Girls Point
Silver Bay Harbor
Beaver Bay
Encampment I
Gooseberry Reef
Castle Danger
Knife River
Split Rock Pt
Two Harbors
Agate Bay
Duluth
Superior
Lake Superior
Pump-out facilities
Lake Superior Datum
Low Water Datum
Extreme Levels (period of record)
Average levels (1860-1968)
Elevation in feet
LORAN-C
GENERAL EXPLANATION
LORAN-C FREQUENCY 100kHz
PULSE REPETITION INTERVAL
8970 89,700 Microseconds
STATION TYPE DESIGNATORS (Not individual station letter designators)
M Master
W Secondary
X Secondary
Y Secondary
Z Secondary
EXAMPLE 8970-Y
RATES ON THIS CHART
8970-X 8970-Y
The Loran-C correction tables published by the Defense Mapping Agency or others should not be used with this chart. The lines of position shown have been adjusted based on survey data. Every effort has been made to meet the accuracy criteria established by U.S. Coast Guard Mariners, however, are cautioned not to rely solely on the lattices in marked waters.
For more detail see Chart No. 14973
For more detail see Chart No. 14974
For more detail see Chart No. 14966
LORAN LINEAR INTERPOLATOR
CAUTION
Only marine radiobeacons have been operated for surface use. Transmissions of the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Publication 117.
Radio direction finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:
Latitude-Longitude Graticule Intersection
NOTE B
The channel legend reflects the Corps of Engineers project depth. The Corps of Engineers publishes the controlling depth periodically in the U.S. Coast Guard Local Notice to Mariners. For further information on channel depths, direct inquiries to: Office of the District Engineer, Corps of Engineers, Detroit, Michigan
NOAA WX FM WEATHER BROADCASTS
The National Weather Service (WSO) listed below provides continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.
Duluth, Minn. KIG-64 162.55 MHz (Chan. WX 1)
CAUTION
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.
CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.
During some winter months or when ice-designed by ice, certain aids to navigation are removed by other types or removed. For details see U.S. Coast Guard Light List.
Soundings
POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).
RADAR REFLECTORS
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.
CAUTION
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CAUTION
POTABLE WATER INTAKE (PWI)
Vessels operating in fresh water lakes or rivers shall not discharge sewage, or ballast, or bilge water within such areas adjacent to domestic water intakes as are designated by the Surgeon General (21 CFR 1250.93). Consult U.S. Coast Pilot 6 for important supplemental information.
NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 6. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 9th Coast Guard District in Cleveland, Ohio or at the Office of the District Engineer, Corps of Engineers, in Detroit, Michigan.
Refer to charted regulation sections numbers.
SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 6 for important supplemental information.
WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot 6 for details.
Sailing courses and limits indicated in magenta are recommended by the Lake Carriers Association and the Dominion Marine Association.
Low Water Datum, the datum to which depths are given, is the plane of reference for the charted depths. If the lake level is above or below Low Water Datum, the charted depths are correspondingly higher or lesser than the charted depths.
FEET
YARDS
METERS
STATUTE MILES
Latitude and Longitude Plotting Interpolator
KNIFE RIVER
MINNESOTA
Scale 1:6,000
SOUNDINGS IN FEET
FATHOMS
FEET
METERS

UNITED STATES - GREAT LAKES
LAKE SUPERIOR-MINNESOTA-WISCONSIN-MICHIGAN

LITTLE GIRLS POINT TO SILVER BAY

Polyconic Projection
Scale 1:120,000
North American 1902 Datum

SOUNDINGS IN FEET

NOTES

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AIDS TO NAVIGATION. Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

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(Little Girls Point to Silver Bay)
SOUNDINGS IN FEET - SCALE 1:120,000

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